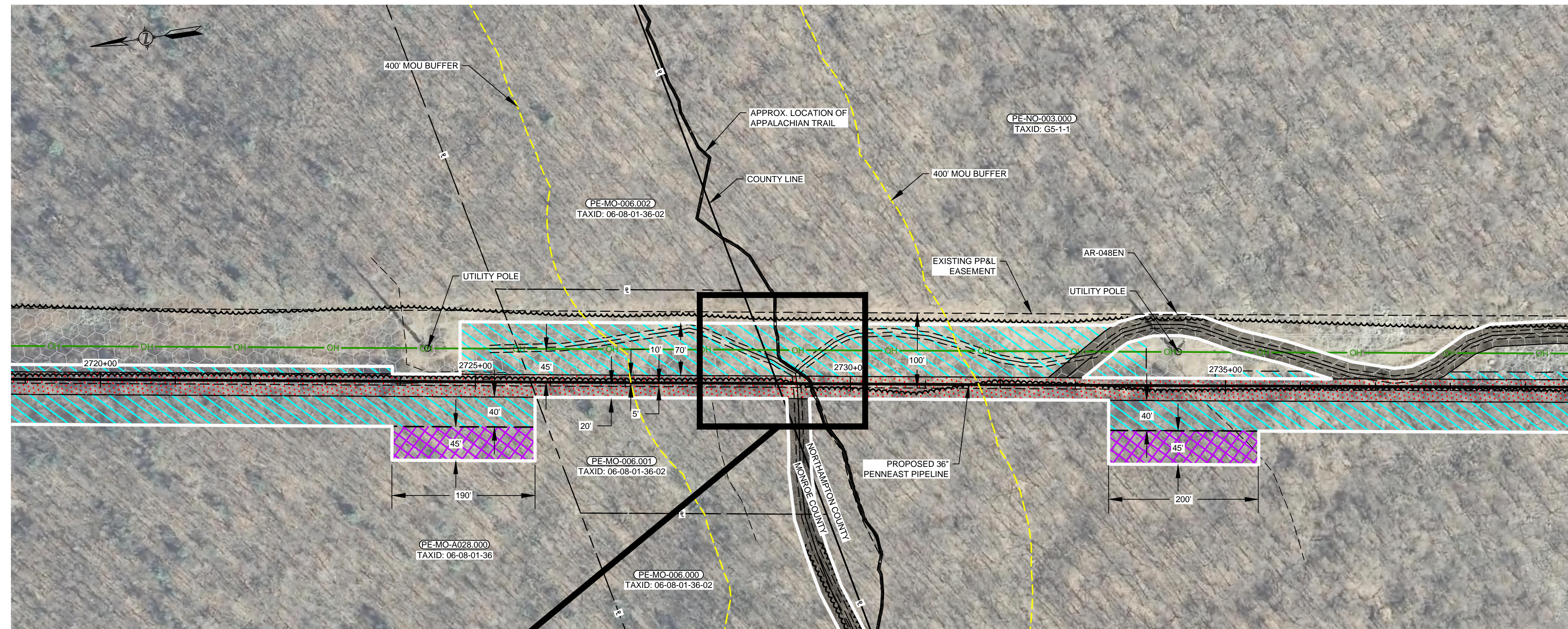
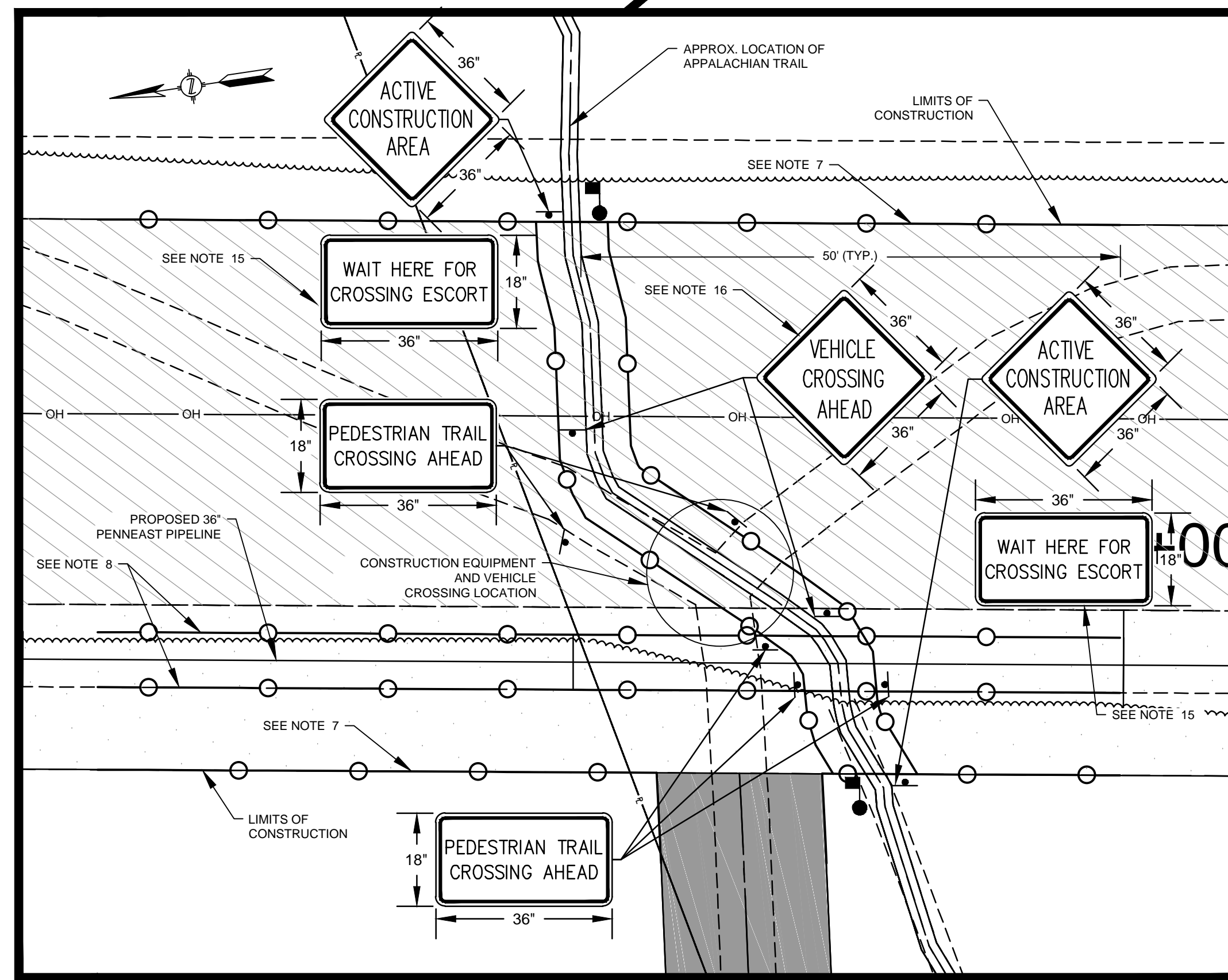
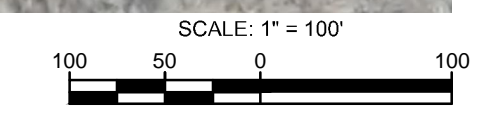


## Appendix F - Site-Specific Appalachian Trail Crossing Plan

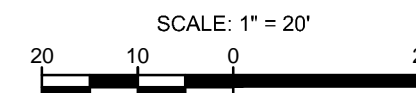




PLAN VIEW  
SCALE: 1" = 100'

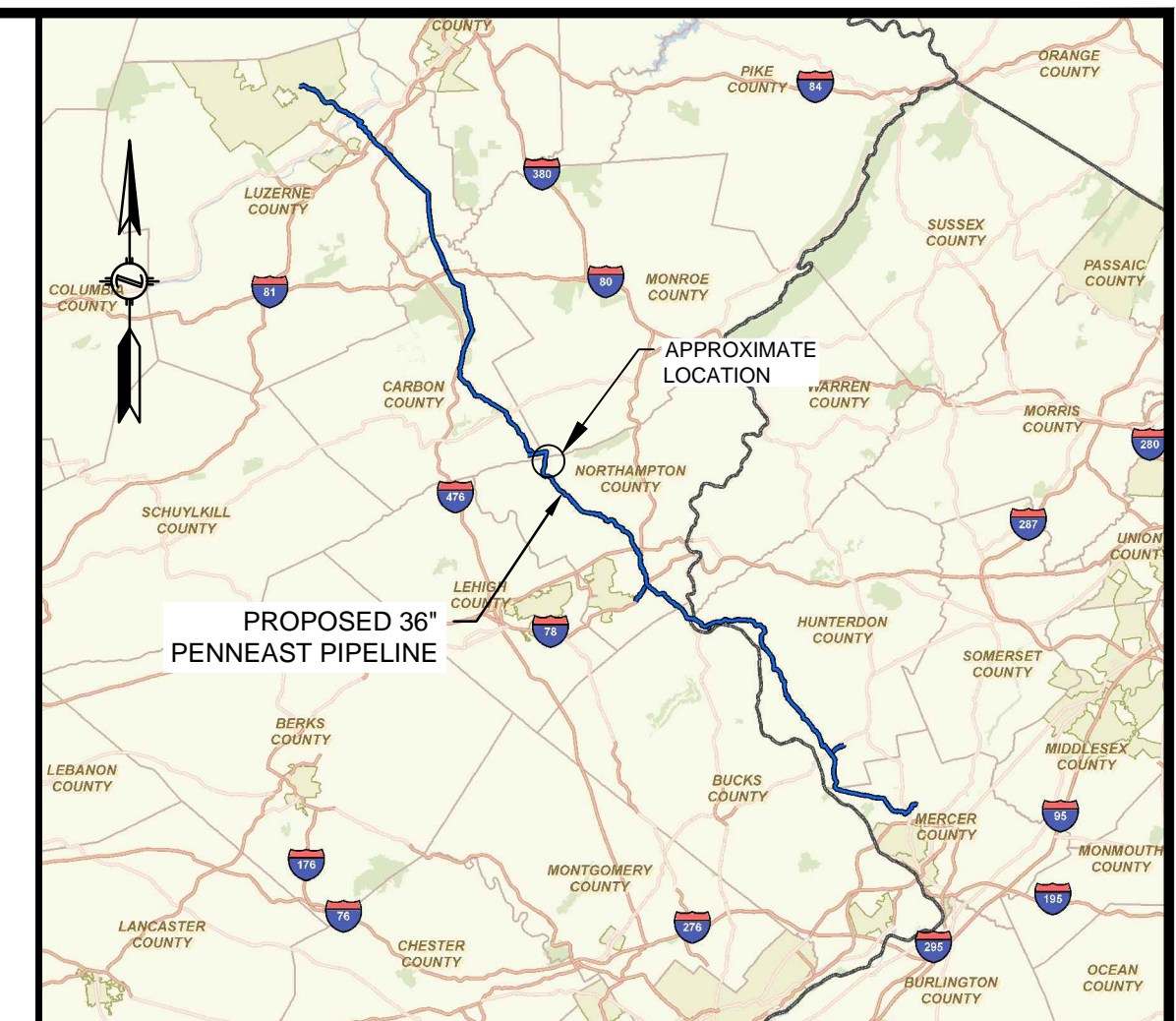


DETAIL VIEW  
SCALE: 1" = 20'



NOTES:

- PENNEAST WILL ADHERE TO PROJECT CONSTRUCTION SPECIFICATIONS AND APPLICABLE FERC, USACE, PADEP AND/OR REGULATORY REQUIREMENTS, INCLUDING THOSE PERTAINING TO SAFETY, ENVIRONMENTAL INSPECTION, SPILL PREVENTION, CONTROL, AND CLEANUP, AND EROSION/SEDIMENT CONTROL IN BOTH UPLAND AND WETLAND AREAS. ENVIRONMENTAL TRAINING WILL BE REQUIRED FOR ALL LAND AGENTS, CONSTRUCTION PERSONNEL AND ENVIRONMENTAL INSPECTORS; AGENCY PERSONNEL WILL ALSO BE INVITED TO THE TRAINING.
- PENNEAST WILL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE LANDOWNER AND/OR LAND MANAGER TO REVIEW THE TERMS AND CONDITIONS OF THE EASEMENT ACROSS THE AFFECTED PROPERTY(IES), IDENTIFY SENSITIVE RESOURCES IN THE FIELD (E.G., WETLANDS, WATERCOURSES, SURVEY MARKERS, TRAILS), AND CONFIRM THE SITE-SPECIFIC CONSTRUCTION PROCEDURES TO BE USED TO MINIMIZE POTENTIAL ADVERSE EFFECTS TO SUCH RESOURCES.
- PENNEAST WILL PROVIDE THE LAND-OWNER AND/OR LAND-MANAGER WITH PROJECT SAFETY AND ENVIRONMENTAL AWARENESS TRAINING (WHICH WILL BE REQUIRED FOR ALL PERSONNEL ENTERING PROJECT CONSTRUCTION WORK AREAS), AS WELL AS RELEVANT CONTACT INFORMATION FOR PENNEAST AND CONTRACTOR REPRESENTATIVES INVOLVED IN WORK ACTIVITIES ON THE AFFECTED RECREATIONAL OR SPECIAL USE PROPERTY(IES).
- PENNEAST'S ENVIRONMENTAL AND CONSTRUCTION INSPECTORS AS WELL AS ROW LAND AGENTS WILL BE ON-SITE DURING CONSTRUCTION AND WILL BE THE PRIMARY POINTS OF CONTACT WITH THE LANDOWNER AND/OR LAND MANAGER.
- CONSTRUCTION AREAS WILL BE INSPECTED AND MAINTAINED IN A SANITARY CONDITION AT ALL TIMES. WASTE MATERIALS (INCLUDING BUT NOT LIMITED TO HUMAN WASTE, TRASH, GARBAGE, REFUSE, AND OIL AND PETROLEUM PRODUCTS) WILL BE DISPOSED OF PROMPTLY AT AN APPROVED WASTE DISPOSAL SITE.
- CONSTRUCTION MATERIALS AND CONSTRUCTION EQUIPMENT IN THE VICINITY OF PUBLIC RECREATIONAL AREAS WILL BE MOVED OUTSIDE OF SENSITIVE RESOURCE AREAS IN ACCORDANCE WITH FERC PLANS AND PROCEDURES, AND APPROPRIATELY SECURED PRIOR TO CESSATION OF WORK AT THE END OF EACH WORK DAY.
- HIGH VISIBILITY SAFETY FENCING SHALL BE INSTALLED AND MAINTAINED DURING ACTIVE CONSTRUCTION AT THE INTERSECTION OF THE CONSTRUCTION LIMITS AND THE APPALACHIAN TRAIL. THE FENCING SHALL EXTEND 50' ALONG THE CONSTRUCTION LIMITS ON EITHER SIDE OF THE TRAIL AND ALSO BE PLACED ALONGSIDE (PARALLEL) TO THE TRAIL BETWEEN THE CONSTRUCTION LIMITS.
- HIGH VISIBILITY SAFETY FENCE SHALL BE INSTALLED AND MAINTAINED OUTSIDE OF ANY OPEN EXCAVATION.
- FLAGGERS EQUIPPED WITH TWO-WAY RADIOS WILL BE PRESENT AT THE INTERSECTIONS OF THE LIMITS OF CONSTRUCTION AND THE TRAIL DURING ACTIVE CONSTRUCTION. FLAGGERS WILL ESCORT PEDESTRIANS THROUGH OR AROUND THE WORKSPACE. PEDESTRIAN TRAFFIC, ACCOMPANIED BY A FLAGGER, WILL ONLY PROCEED IN ONE DIRECTION AT A TIME.
- THE PIPE SHALL BE INSTALLED USING A DRAG SECTION CONSTRUCTION TECHNIQUE TO MINIMIZE TRAIL CLOSURES. THIS TECHNIQUE INVOLVES THE TRENCHING, INSTALLATION AND BACKFILL OF A PREFABRICATED LENGTH OF PIPE CONTAINING SEVERAL PIPE JOINTS LOWERED INTO THE TRENCH. HOWEVER, BRIEF TRAIL CLOSURES WILL BE NECESSARY DURING TWO (2) PERIODS WHEN ACTIVE CONSTRUCTION WILL BE UNDERWAY BETWEEN THE HIGH VISIBILITY SAFETY FENCE PARALLELING THE APPALACHIAN TRAIL:
  - WHILE THE TRENCH IS BEING EXCAVATED AND PREPARED FOR PIPE, AND UNTIL STEEL PLATES OR TIMBER MATS CAN BE INSTALLED IMMEDIATELY THEREAFTER (TOTAL OF 6 HOURS ESTIMATED).
  - WHILE THE PIPE IS BEING LOWERED INTO POSITION, AND UNTIL BACKFILLING CAN BE COMPLETED IMMEDIATELY THEREAFTER (TOTAL OF 6 HOURS ESTIMATED).
 DURING THESE CLOSURES, FLAGGERS WILL ESCORT PEDESTRIANS OFF THE APPALACHIAN TRAIL AND AROUND THE WORKSPACE TO THE NORTH OR SOUTH USING THE EXISTING CLEARED PPL ROW. SINCE ACTIVE CONSTRUCTION WILL NOT BE OCCURRING SIMULTANEOUSLY NORTH AND SOUTH OF THE TRAIL, PEDESTRIANS WILL HAVE SAFE, ESCORTED PASSAGE THROUGH THE LIMITS OF CONSTRUCTION AT ALL TIMES.
- AT THE END OF EACH DAY, OR IN THE EVENT THAT ACTIVE CONSTRUCTION WOULD OTHERWISE NEED TO CEASE PRIOR TO COMPLETING EITHER OF THE TWO (2) TASKS ABOVE NECESSITATING TRAIL CLOSURE, THE TRENCH WILL BE BACKFILLED AND/OR COVERED WITH STEEL PLATES OR TIMBER MATS IN ORDER TO RE-ESTABLISH PEDESTRIAN USE OF THE TRAIL.
- ALL POSTED SIGNAGE FOR TRAIL USERS SHALL INCLUDE APPROPRIATE PENNEAST CONTACT INFORMATION, INCLUDING PHONE NUMBER. ALL TEMPORARY SIGNS SHALL HAVE BLACK COPY ON ORANGE BACKGROUND AND SHALL BE RETRO-REFLECTORIZED.
- SIGNS INSTALLED ON PORTABLE STANDS REQUIRE 60" MINIMUM MOUNTING HEIGHT FROM THE GROUND SURFACE TO THE BOTTOM OF SIGN.
- SIGNS MOUNTED ON POSTS REQUIRE A MINIMUM 84" MOUNTING HEIGHT FROM THE GROUND SURFACE TO BOTTOM OF SIGN.
- "WAIT HERE FOR CROSSING ESCORT" SIGN TO BE COVERED OR REMOVED DURING NON-WORKING HOURS.
- "WAIT HERE FOR CROSSING ESCORT" SIGNS WILL BE REMOVED AFTER PIPELINE INSTALLATION AND BACKFILL IS COMPLETE AND FLAGGERS ARE NO LONGER NEEDED (12 DAYS FROM INSTALLATION ESTIMATED). HOWEVER, "VEHICLE CROSSING AHEAD" SIGNS AND ALL HIGH VISIBILITY SAFETY FENCING WILL REMAIN IN PLACE AFTER PIPE INSTALLATION AND BACKFILL IS COMPLETE. THESE MEASURES WILL REMAIN IN PLACE UNTIL VEHICLE TRAVEL IS NO LONGER NECESSARY (120 DAYS FROM INSTALLATION ESTIMATED), AND SIGNS AND FENCING WILL BE INSPECTED PERIODICALLY TO ENSURE THEY REMAIN IN PLACE. CONSTRUCTION VEHICLES WILL BE REQUIRED TO STOP AT THE HIGH VISIBILITY SAFETY FENCE THAT PARALLELS THE TRAIL, PULL BACK BOTH SIDES OF THE FENCING TO ALLOW FOR VEHICLE PASSAGE ACROSS THE APPALACHIAN TRAIL, AND IMMEDIATELY REPLACE BOTH SIDES OF THE FENCING AFTER PASSING THROUGH.
- THE PERMANENT ROW WILL BE MAINTAINED AFTER CONSTRUCTION, DURING MAINTENANCE AND OPERATION ACTIVITIES.
- THE WORKSPACE WILL BE RESTORED IN ACCORDANCE WITH THE SGL-168 RESTORATION PLAN DATED 2/15/2018 AND APPROVED BY THE PGO ON 2/16/2018.



LOCATION MAP  
SCALE: N.T.S.

LEGEND

- PROPOSED PIPELINE
- PROPERTY LINE
- PROPOSED ACCESS ROAD
- PROPOSED ADDITIONAL TEMPORARY WORKSPACE
- PROPOSED TEMPORARY WORKSPACE
- PROPOSED PERMANENT EASEMENT
- EXISTING EASEMENT
- EXISTING OVERHEAD LINES
- 400' MOU
- EXISTING TREELINE
- UTILITY POLE
- LINE LIST NUMBER
- TEMPORARY CONSTRUCTION SIGN
- FLAGGER
- SAFETY FENCE

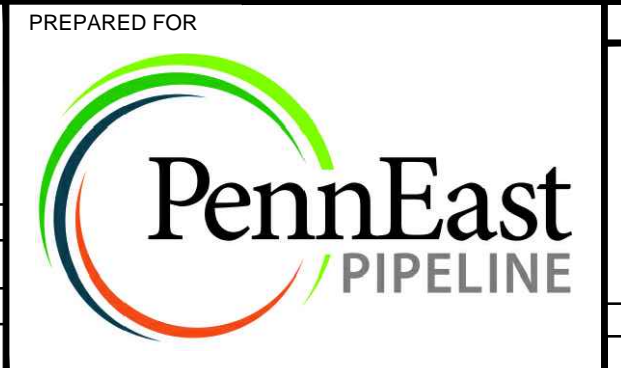
CONSTRUCTION SEQUENCE:

- PRIOR TO EXCAVATION
- STRING PIPE (WELD, X-RAY, COAT), 2 DRAG SECTIONS TO SPAN MOC
- DAY 1
- EXCAVATE TRENCH ON ONE SIDE OF THE AT TRAIL (EAST OR WEST) AND INCLUDE THE TRAIL ITSELF
  - LOWER PIPE INTO TRENCH
  - BACKFILL TRENCH
- DAY 2
- EXCAVATE TRENCH ON OPPOSITE SIDE OF TRAIL (EAST OR WEST) TRAIL ITSELF HAS ALREADY BEEN BACKFILLED AND IS NOT INCLUDED
  - LOWER PIPE INTO TRENCH
  - PERFORM TIE IN WELD INCLUDING COATING
  - BACKFILL TRENCH

- NOTES:
- THE IMAGERY SHOWN WAS PROVIDED BY PASDA.
  - EXISTING FEATURES SHOWN WERE SURVEYED BY MOTT MACDONALD AND DIGITIZED FROM IMAGERY. ALL LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
  - PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA AND RECTIFIED PROPERTY LINES AND ARE NOT THE RESULT OF A BOUNDARY SURVEY.

REFERENCE DRAWINGS		REVISIONS				PROJECT ENGINEER STAMP	
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR
000-03-01-104	ALIGNMENT SHEET	A	ISSUED FOR INFORMATION	05/2018	DJH(MM)	ARY(MM)	MAW(MM)
000-03-01-105	ALIGNMENT SHEET	B	REISSUED FOR INFORMATION	09/2018	DJH(MM)	ARY(MM)	MAW(MM)

APPROVALS	
DRAWN BY	DATE
DJH (MM)	05/2018
CHECKED BY	DATE
ARY (MM)	05/2018
ENG. APPROVAL	DATE
DJH (MM)	05/2018
P.M. APPROVAL	DATE
MAW (MM)	05/2018



PENNEAST PIPELINE PROJECT		
ANST CROSSING EXHIBIT		
PROPOSED 36" PENNEAST PIPELINE		
MONROE/NORTHAMPTON COUNTY, PENNSYLVANIA		
SCALE	DRAWING NO.	REVISION
AS NOTED	ANST CROSSING PLAN	B